

CLAIMS:

1. A refrigerating machine comprising: a plurality of compressors driven by motors, each of the motors including an armature having an iron core incorporating a squirrel cage conductor and a permanent magnet which is magnetized so as to allow the motor to serve as a synchronous motor; and a compressor drive circuit for selectively driving the motors at a power source frequency by a commercial power source or at a variable frequency by an inverter.
2. A refrigerating machine comprising a plurality of compressors driven by the motors each having an armature iron core incorporating a permanent magnet, wherein at least one of the motors is driven at a variable speed by an inverter, and each of the others thereof is provided in its armature with a squirrel cage conductor in addition to the permanent magnet.
3. A refrigerating machine comprising a plurality of compressors driven by the motors each having an armature iron core incorporating a squirrel cage conductor and a permanent magnet, wherein the motors can be driven at a power source frequency by a commercial power source and also at a variable frequency by an inverter.
4. A refrigerating machine as set forth in claim 1, wherein scroll compressors are used as the compressors.
5. A refrigerating machine as set forth in

claim 1, wherein armature windings are concentrically wound in a stator in the each motor.

6. A refrigerating machine as set forth in claim 1, wherein scroll compressors are used as the compressors, and armature windings are wound in a stator in each of the motors.

7. A refrigerating machine as set forth in claim 1, wherein if a failure of the inverter is determined, at least one of the compressors is driven by the commercial power source.

8. A refrigerating machine as set forth in claim 1, the plurality of compressors are all driven by motors each having an armature iron core incorporating a squirrel cage conductor and a permanent magnet which is magnetized so as to allow the motor to serve as a synchronous motor.

9. A refrigerating machine as set forth in claim 1, wherein the plurality of compressors have types which are unified.

10. A refrigerating machine as set forth in claim 1, wherein a pressure detecting device is provided on the discharge side of each of the compressor, and the motor is started depending upon a detected value of the pressure detecting device.